



AI-100^{Q&As}

Designing and Implementing an Azure AI Solution

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QUESTION 1

Your company's developers have created an Azure Data Factory pipeline that moves data from an on-premises server to Azure Storage. The pipeline consumes

Azure Cognitive Services APIs.

You need to deploy the pipeline. Your solution must minimize custom code.

You use Integration Runtime to move data to the cloud and Azure API Management to consume Cognitive Services APIs.

Does this action accomplish your objective?

- A. Yes, it does
- B. No, it does not

Correct Answer: B

The given solution does not accomplish the objective of minimizing custom code. While Integration Runtime can be used to move data from an on-premises server to Azure Storage, and Azure API Management can be used to consume Cognitive Services APIs, it does not eliminate the need for custom code.

To minimize custom code and simplify the deployment of the pipeline, you should consider using Azure Logic Apps. Azure Logic Apps provide a serverless and code-free way to orchestrate workflows and integrate different systems and services.

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/concepts-integration-runtime> <https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-examples-and-scenarios>

QUESTION 2

You are developing an AI application that will perform the following functions:

Capture video from hundreds of surveillance cameras.

Recognize faces in the captured videos.

You want to save the captured videos in Azure but you also want to keep costs to a minimum.

Which of the following actions could you take?

- A. Make use of Azure Synapse Analytics.
- B. Make use of Azure Data Lake Storage.
- C. Make use of Azure Blob Storage.



D. Make use of Azure Databricks.

Correct Answer: C

Azure Blob Storage is a cost-effective solution for storing large amounts of unstructured data, such as videos. It provides scalable storage capacity at a lower cost compared to other storage options. With Blob Storage, you can store and manage the captured videos from hundreds of surveillance cameras.

QUESTION 3

You create an Azure Machine Learning Studio experiment.

You plan to publish the experiment as a Machine Learning Web service.

You need to ensure that you can consume the web service from Microsoft Excel spreadsheets.

What should you use?

- A. a Batch Execution Service (BES) and an API key
- B. a Batch Execution Service (BES) and an Azure managed identity
- C. a Request-Response Service (RRS) and an Azure managed identity
- D. a Request-Response Service (RRS) and an API key

Correct Answer: D

Steps to Add a New web service

1.

Deploy a web service or use an existing Web service.

2.

Click Consume.

3.

Look for the Basic consumption info section. Copy and save the Primary Key and the Request-Response URL.

4.

In Excel, go to the Web Services section (if you are in the Predict section, click the back arrow to go to the list of web services).

5.

Click Add Web Service.

6.

Paste the URL into the Excel add-in text box labeled URL.



7.

Paste the API/Primary key into the text box labeled API key.

8.

Click Add.

References: <https://docs.microsoft.com/en-us/azure/machine-learning/studio/excel-add-in-for-web-services>

QUESTION 4

You deploy an application that performs sentiment analysis on the data stored in Azure Cosmos DB.

Recently, you loaded a large amount of data to the database. The data was for a customer named Contoso, Ltd.

You discover that queries for the Contoso data are slow to complete, and the queries slow the entire application.

You need to reduce the amount of time it takes for the queries to complete. The solution must minimize costs.

What is the best way to achieve the goal? More than one answer choice may achieve the goal. Select the BEST answer.

- A. Change the request units.
- B. Change the partitioning strategy.
- C. Change the transaction isolation level.
- D. Migrate the data to the Cosmos DB database.

Correct Answer: B

References: <https://docs.microsoft.com/en-us/azure/architecture/best-practices/data-partitioning>

QUESTION 5

Your company uses an internal blog to share news with employees.

You use the Translator Text API to translate the text in the blog from English to several other languages used by the employee.

Several employees report that the translations are often inaccurate.

You need to improve the accuracy of the translations.

What should you add to the translation solution?

- A. Text Analytics
- B. Language Understanding (LUIS)
- C. Azure Media Services



D. Custom Translator

Correct Answer: D

Custom Translator is a feature of the Microsoft Translator service. With Custom Translator, enterprises, app developers, and language service providers can build neural translation systems that understand the terminology used in their own business and industry. The customized translation system will then seamlessly integrate into existing applications, workflows and websites.

Custom Translator allows users to customize Microsoft Translator's advanced neural machine translation for Translator's supported neural translation languages. Custom Translator can be used for customizing text when using the Microsoft Translator Text API , and speech translation using the Microsoft Speech services.

References: <https://www.microsoft.com/en-us/translator/business/customization/>

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